

Kenton C. Ward, CFM
Surveyor of Hamilton County
Phone (317) 776-8495
Fax (317) 776-9628

Suite 188
One Hamilton County Square
Noblesville, Indiana 46060-2230

June 9, 2014

To: Hamilton County Drainage Board

Re: R. J. Craig Drain, George White Arm, Maple Street Reconstruction

Attached are plans for the proposed reconstruction of the R. J. Crain Drain, George White Arm No. 3. The proposal is to replace the drain in the Maple Street right-of-way, owned by the Town of Fishers per the 'R. J. Craig Regulated Drain Reconstruction - Maple Street' project plans by A&F Engineering, Job No. AF-14039P, dated 6/5/2014.

Per the plans, a portion of the existing drain will be replaced by a new storm sewer.

This line will consist of the following pipes:

141' of 12" RCP 278' of 15" RCP 90' of 18" RCP

The total length of the new reconstructed drain shall be 509 feet, including new pipe and structures. The 318 feet of original drain between Sta. 0+00 and 3+18 shall be vacated. This proposal will add 191 feet to the drain's total length.

The original drain was previously referenced in my report for the 1997 reconstruction of the George White Arm 3 that was approved at hearing by the Board on November 27, 1997 as recorded in Drainage Board Minutes Book 4 page 482. Note: The drain immediately downstream of this project is also proposed for reconstruction at this time. See my report called "R. J. Craig Drain, George White Arm, Fishers Maple Street Redevelopment" for more information on that project.

This proposal includes the drain route between storm structures 36, 201, 202, 203, 204, 206, 207, and 208 per the A&F plans. (Note: Str. 205 is called out on the plans as a pipe stub to Str. 204 for future tie-in, but is not to be considered part of the regulated drain). The new drain pipe shall be located between A&F Sta. 16+06.00 (Str. 36) and 20+60.72 (Str. 208). This includes the main trunk line that runs along the east side of Maple Street and two pipes that cross Maple Street (Str. 202-203 and 204-206).

The fund is assessed at \$5.00 per acre, \$25.00 minimum which brings in \$40,678.70 annually. Currently the R. J. Craig maintenance fund has a balance of \$151,685.30 the engineering contract for the design of this project by A & F Engineering is \$21,570.00. After payment of his claim the fund balance will be \$144,451.30. The engineer's cost estimate for the project is \$163,150.87.

I believe there are three funding options for the Board to consider:

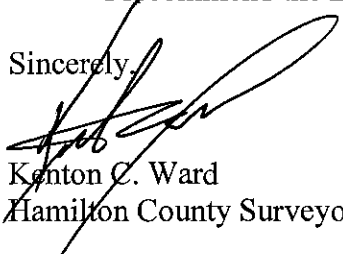
1. Use the existing maintenance fund for the cost of the project taking the \$18,699.57 short fall out of the General Drain Improvement Fund (GDIF) to be paid back using 2015 collections.
2. Take 75% of the maintenance fund under IC 36-9-27-45.5 which is \$108,338.48 and fund the remaining \$54,812.39 through a reconstruction assessment for those properties benefited on Maple Street. The assessment would be \$28,400.20 per acre.
3. Take the entire maintenance fund and fund the \$18,699.57 short fall through a reconstruction assessment on those properties on Maple Street benefitting which would be an assessment of \$ 9,673.35 per tract.

The reconstruction will take place in the drain's current location, no additional easement is required. Where the drain is being extended on the north end of the project, a grant of easement will be submitted on the Meyer-Najem project currently under review.

I recommend that this drain be classified as an urban drain.

I recommend the Board set a hearing date for July 28, 2014.

Sincerely,



Kenton C. Ward
Hamilton County Surveyor

KCW/stc

R.J. Craig Drain, Geo. White Arm

Maple Street Reconstruction Cost Estimate \$163,150.87

Vacate Sta 0 to 3+18 of Geo. White & replacing with 509' of new drain. This proposal will add 191' to the drain's total length.
 Easement for extended pipe will be 75' per statue until addressed with a non-enforcement for the Meyer-Najem project.

*Cost of reconstruction to be paid from the maintenance fund.

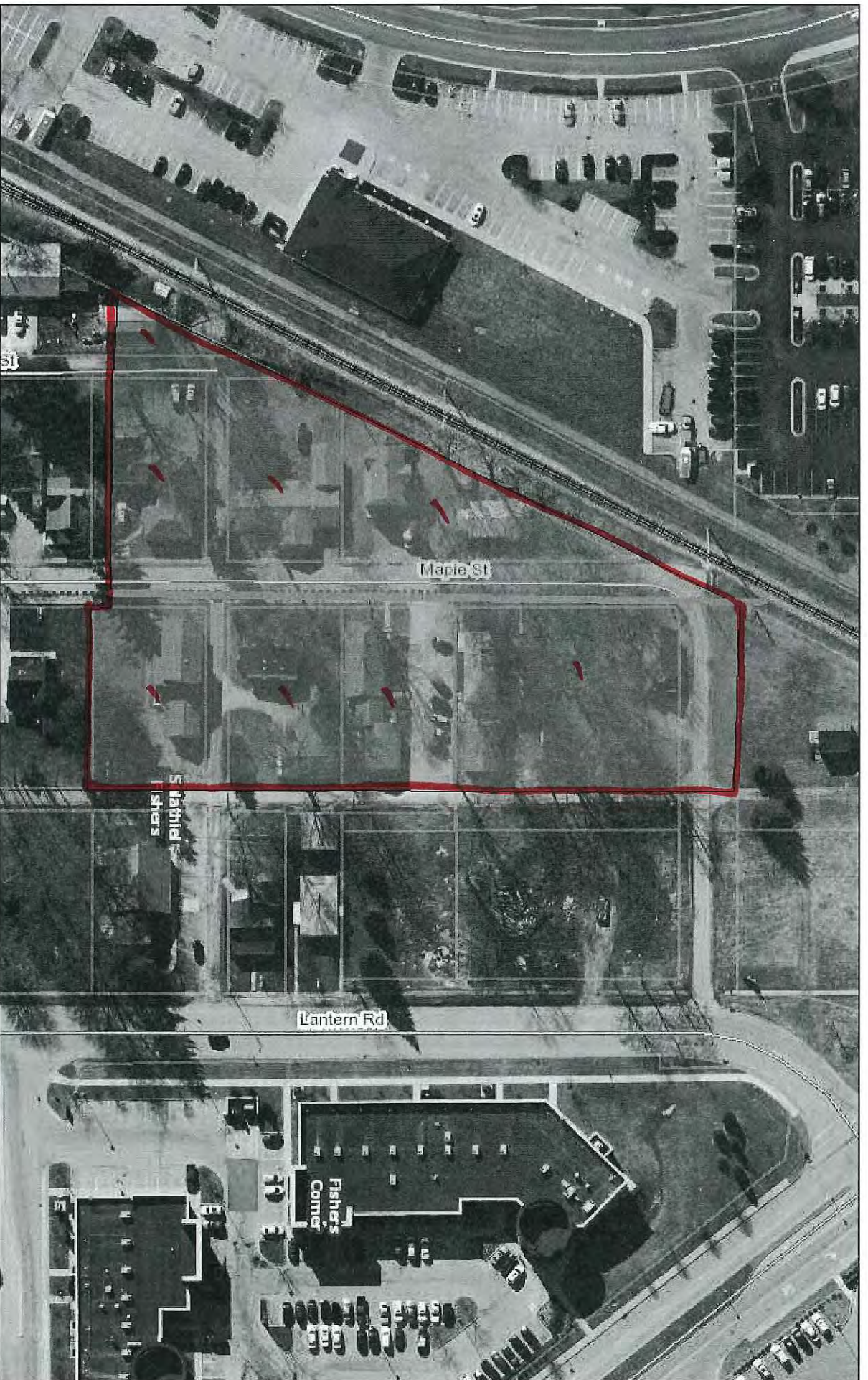
*No change in current maintenance assessment at this time.

Hearing: 07/28/14

Parcel	Owner	Description	Benefit	Option 1 Recnst Assmt
15-11-31-03-10-001.000	High Alpha II LLC	S31 T18 R5 High Alpha 2 Lot Pt 1	n/a	*
15-10-36-04-10-001.000	High Alpha II LLC	S36 T18 R4 High Alpha 2 Lot Pt 1	n/a	*
15-10-36-04-10-002.000	Fishers Town Hall Bldg Corp	S36 T18 R4 High Alpha 2 Lot Pt 1	0.40	*
15-10-36-04-05-008.000	11720 Maple LLC	S36 T18 R4 Salathiel Fishers Sec. 1 Lot 32	0.25	*
15-10-36-04-05-009.000	Town of Fishers	S36 T18 R4 Salathiel Fishers Sec. 1 Lot 31	0.25	*
15-10-36-04-05-010.001	Holly, Diane L	S36 T18 R4 Salathiel Fishers Sec. 1 Lot 30	0.25	*
15-10-36-04-04-001.000	Bentley, Fred	S36 T18 R4 Fishers Original Lot 20, 21 & 22	0.27	*
15-10-36-04-04-002.000	McManus, John T & Jill M	S36 T18 R4 Fishers Original Lot 19	0.24	*
15-10-36-04-04-003.000	11697 Maple LLC	S36 T18 R4 Fishers Original Lot Pt 18	0.21	*
15-10-36-04-03-001.000	Town of Fishers	S36 T18 R4 Fishers Original Lot 10 & 9	0.06	*
15-10-36-04-04-004.000	Town of Fishers	S36 T18 R4 Fishers Original Lot Pt 17	n/a	*
15-10-36-04-04-004.001	11683 Maple LLC	S36 T18 R4 Fishers Original Lot Pt 17 & Pt 18	n/a	*
15-10-36-04-04-006.000	11671 Maple LLC	S36 T18 R4 Fishers Original Lot 16	n/a	*
15-10-36-04-04-007.000	Maxey, Kathryn L	S36 T18 R4 Fishers Original Lot 15	n/a	*
15-10-36-04-04-008.000	Cook, Berthel	S36 T18 R4 Fishers Original Lot 14	n/a	*
15-10-36-04-04-009.000	Driscoll Properties LLC	S36 T18 R4 Fishers Original Lot 13	n/a	*
15-10-36-04-04-010.000	Old Towne Center LLC	S36 T18 R4 Fishers Original Lot 12	n/a	*
15-10-36-04-04-011.000	Old Towne Center LLC	S36 T18 R4 Fishers Original Lot 11	n/a	*
15-10-36-04-05-010.000	Town of Fishers	S36 T18 R4 Salathiel Fishers Sec. 1 Lot 29	n/a	*
15-10-36-04-05-011.000	Walden, Sandra L	S36 T18 R4 Salathiel Fishers Sec. 1 Lot 28	n/a	*
15-10-36-04-05-012.000	Kay2Jay Bye LLC	S36 T18 R4 Salathiel Fishers Sec. 1 Lot 27	n/a	*
15-10-36-04-05-013.000	WES Investments LLC	S36 T18 R4 Salathiel Fishers Sec. 1 Lot 26	n/a	*
15-10-36-04-05-014.000	Town of Fishers Redevelopment	S36 T18 R4 Salathiel Fishers Sec. 1 Lot 25	n/a	*
15-10-36-04-05-015.000	Arvilla & Company LLC	S36 T18 R4 Salathiel Fishers Sec. 1 Pt 24	n/a	*
15-10-36-04-05-016.000	Town of Fishers	S36 T18 R4 Salathiel Fishers Lot 23 & Pt 24	n/a	*
99-99-99-99-99-999.017	Hoosier Heritage Port Authority	S36 T18 R4 Railroad	n/a	*
99-99-99-99-99-999.007	Town Of Fishers	S36 T18 R4 Maple Street	n/a	*
Parcels: 27 notified;			1.93	

Maple Street Reconstruction

2.624 Acres

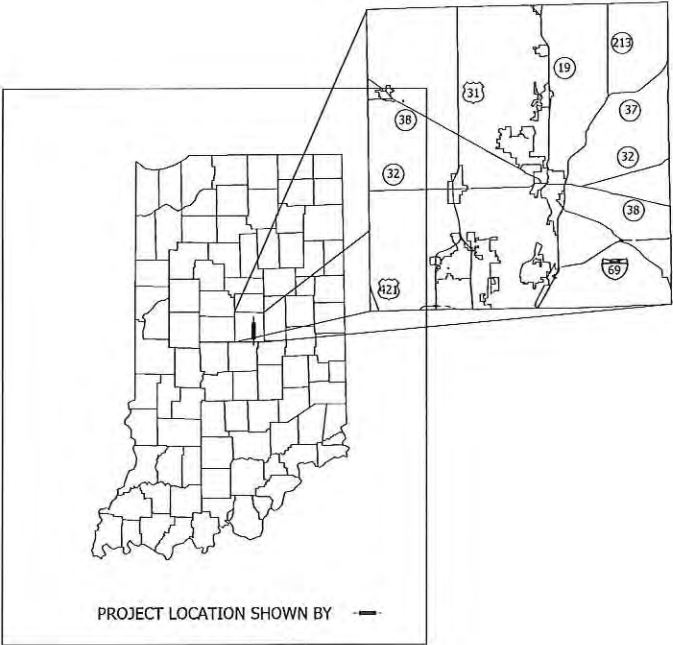


June 6, 2014

- Drainage Structures
- Regulated Drains Text
- Open
- Closed
- SSD
- Subdivision Drainage Structures
- Open
- Closed
- SSD

HAMILTON COUNTY

RJ CRAIG LEGAL DRAIN RECONSTRUCTION
MAPLE STREET



Reconstruction of the Legal Drain on Maple Street from Fishers Corner Blvd. to approximately 475' North in
Section 36, T-18-N, R-4-E,
in Delaware Township, Hamilton County, State of Indiana.

Gross Length: 0.09 mi Latitude: N 39°57'27"
Net Length: 0.09 mi Longitude: W 86°00'52"

SCALES
Plan: 1" = 20' Profile: 1" = 5'



SCALE: 1"=500'

Begin Project
P.O.T. 15+40.00 "B"



End Project
P.O.T. 20+49.67 "B"

FILED
MAY 16 2014
OFFICE OF HAMILTON COUNTY SURVEYOR

- NOTE:
1. The design and construction shall comply with the current Hamilton County construction specifications and standard construction details. The omission of any current standard detail does not relieve the contractor from this requirement.
 2. Indiana Department of Transportation Standard Specifications dated 2014 to be used with these plans.

A&F ENGINEERING
Transportation & Site Engineering
Creating Order Since 1966
8365 Keystone Crossing, Suite 201, Indianapolis, IN. 46240 (317) 202-0864

PLANS PREPARED BY: A & F ENGINEERING CO., LLC (317) 202-0864
PHONE NUMBER
CERTIFIED BY: 3-7-14
DATE
APPROVED FOR LETTING: DATE

BRIDGE FILE	
N/A	
DESIGNATION	
-	
SURVEY BOOK	SHEETS
N/A	1 of 7
CONTRACT	PROJECT
-	-

UTILITY	OWNER	ADDRESS
GAS	Vectren Energy	Joanie Clark 16000 Allisonville Road Noblesville, IN 46061 317-776-5532 jclark@vectren.com
ELECTRIC	Duke Energy Indiana, Inc.	Tracy Grady 100 South Mill Creek Road Noblesville, IN 46060 317-776-5350 tracy.grady@duke-energy.com
CABLE TV	Comcast	Matt Stringer 5330 E. 65th Street Indianapolis, IN 46220 317-774-3384 matthew_stringer@cable.comcast.com
TELEPHONE	AT&T Indiana	Brian Cravens 5858 N. College Avenue Indianapolis, IN 46220 317-252-5003 bc3785@att.com
WATER	Citizens Energy Group	Chris Brumfield 1220 Waterway Boulevard Indianapolis, IN 46202 317-263-6382 cbrumfield@citizensenergygroup.com
SANITARY	SAMCO/HSE Utilities	Jim Hart 11091 Lakeside Drive Fishers, IN 46038 317-577-1150 jhart@samcoinc.us

**	All Earth Shoulders, median areas, and cut and fill slopes shall be plain or mulched seeded except where sodding is specified.
**	Clearing and removal of woody vegetation will be kept to a minimum between construction limits and right-of-way.
**	Tack Coat shall be placed on new and existing bituminous before a new lift of bituminous is added.
**	Represents General Notes required.

[illegible][illegible][illegible]

1-800-382-5544



AT LEAST TWO FULL
WORKING DAYS BEFORE
YOU DIG

2 WORKING DAYS
CALL TOLL FREE BEFORE YOU DIG
1-800-382-5544
UNDERGROUND PROTECTION CENTER

Contractor shall verify all dimensions and clearances and all existing field conditions before starting construction. Commencement of work constitutes acceptance of conditions.

Should different conditions be encountered, contact the engineer or designer before proceeding with work.

Should different conditions be encountered, contact the engineer or designer before proceeding with work.

FILED
MAY 16 2014



8365 Keystone Crossing, Suite 201, Indianapolis, IN. 46240 (317) 202-0864

RECOMMENDED FOR APPROVAL	5-12-14
DESIGN ENGINEER	DATE

DESIGNED: _____ DSS	DRAWN: _____ DSS
CHECKED: _____ JTR	CHECKED: _____ JTR

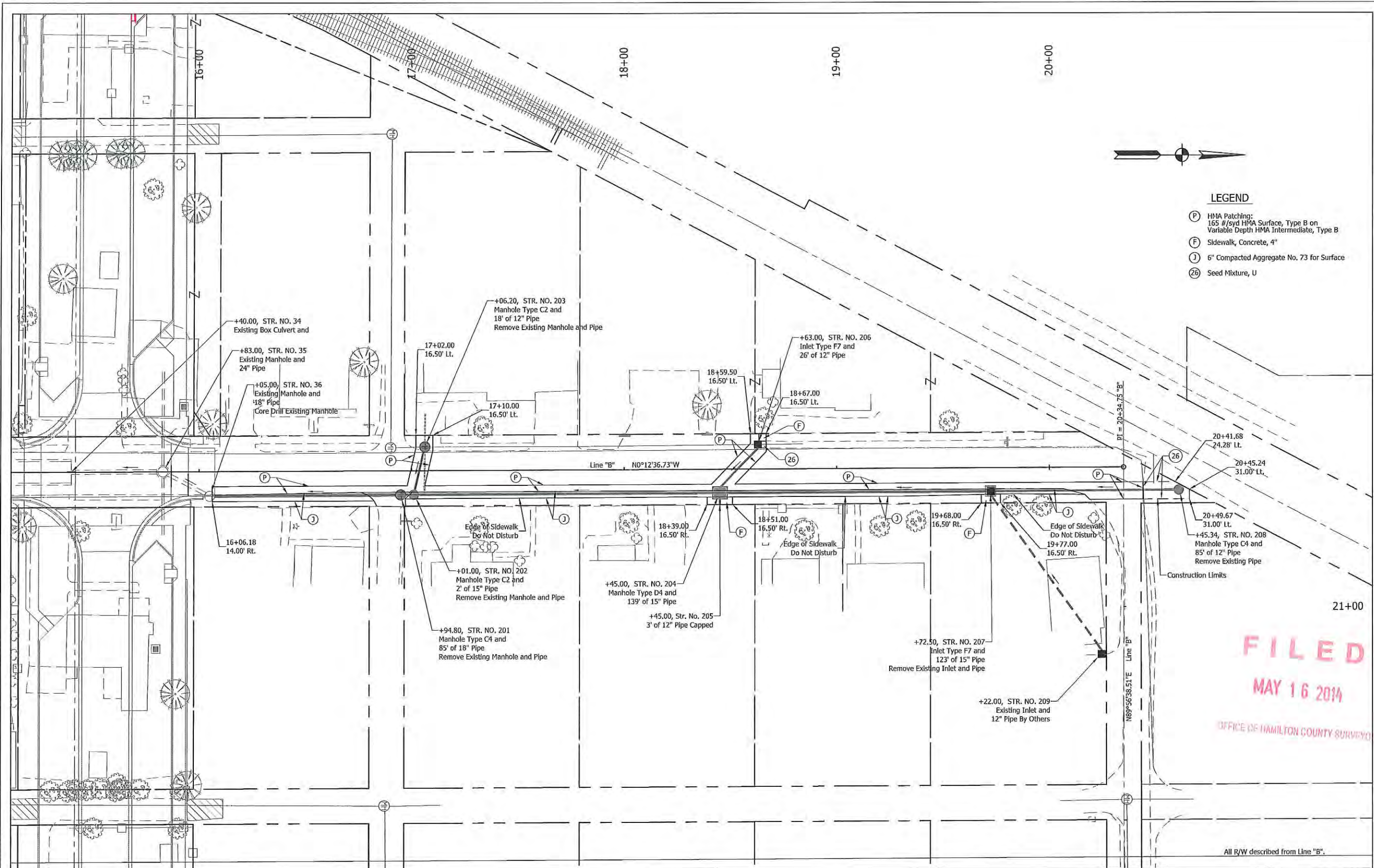
HAMILTON COUNTY

INDEX & GENERAL NOTES

HORIZONTAL SCALE	BRIDGE FILE
NONE	N/A
VERTICAL SCALE	DESIGNATION
NONE	-

SURVEY BOOK	SHEETS		
N/A	2	of	7
CONTRACT	PROJECT		

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A&F ENGINEERING

Transportation & Site Engineering

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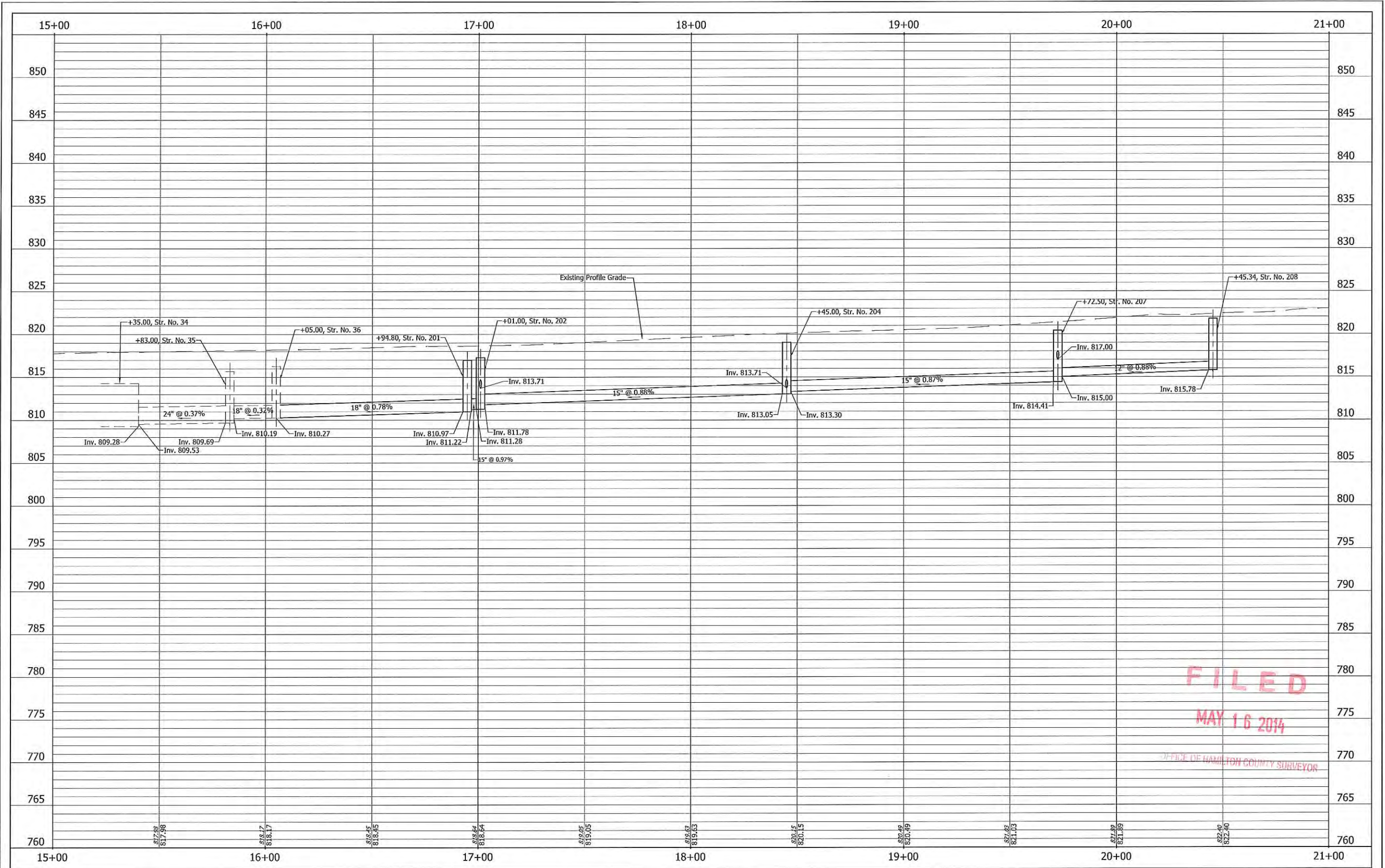
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RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED:		DRAWN:		DATE	
CHECKED:		CHECKED:		DATE	

HAMILTON COUNTY	
PLAN - LINE "B"	

HORIZONTAL SCALE		BRIDGE FILE	
1" = 20'		N/A	
VERTICAL SCALE		DESIGNATION	
N/A		-	
SURVEY BOOK		SHEETS	
N/A		3 of 7	
CONTRACT		PROJECT	
-		-	

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FILED
MAY 16 2014

IN FILE OF HAMILTON COUNTY SURVEYOR

A&F ENGINEERING
Transportation & Site Engineering
Creating Order Since 1966
8365 Keystone Crossing, Suite 201, Indianapolis, IN. 46240 (317) 202-0864

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	XXX	DATE
DESIGNED: DSS	DRAWN: DSS		
CHECKED: JTR	CHECKED: JTR		

HAMILTON COUNTY

PROFILE - LINE "B"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 5'	DESIGNATION -
SURVEY BOOK N/A	SHEETS 4 of 7
CONTRACT -	PROJECT -

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OFFICE OF HAMILTON COUNTY SURVEYOR

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RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ DSS		DRAWN: _____ DSS	
CHECKED: _____ JTR		CHECKED: _____ JTR	

STRUCTURE DATA TABLE

HORIZONTAL SCALE		BRIDGE FILE	
NONE		N/A	
VERTICAL SCALE		DESIGNATION	
NONE		N/A	
SURVEY BOOK		SHEETS	
N/A		5	7
CONTRACT		PROJECT	
N/A		N/A	

Row	STR_NUM	STR_TYP	TOP_OF_CAS	CAST_TYPE	STR_SHAPE	NUM_OF_INV	I1_INV_ELE	I1_DIR	I1_DIA	I1_MAT	I1_CLASS	I2_INV_ELE	I2_DIR	I2_DIA	I2_MAT	I2_CLASS	I3_INV_ELE	I3_DIR	I3_DIA	I3_MAT	I3_CLASS	I4_INV_ELE	I4_DIR	I4_DIA	I4_MAT	I4_CLASS	PROJECT	SOURCE	VER_REF	ENG_CMPY
1	34	CONCRETE BOX CULVERT	817.96		RECTANGULAR	1	809.53	N	24	RCP	CLASS III																MAPLE STREET	AS BUILT	VER	A&F ENGINEERING
2	35	MANHOLE	818.12		ROUND	4	812.69	NE	18	RCP	CLASS III	809.53	S	24	RCP	CLASS III											MAPLE STREET	AS BUILT	VER	A&F ENGINEERING
3	36	MANHOLE	817.78		ROUND	2	810.27	N	18	RCP	CLASS III	810.27	SW	18	RCP	CLASS III											MAPLE STREET	AS BUILT	VER	A&F ENGINEERING
4	201	MANHOLE	818.42		ROUND	2	811.22	N	15	RCP	CLASS III	810.97	S	18	RCP	CLASS III											MAPLE STREET	AS BUILT	VER	A&F ENGINEERING
5	202	MANHOLE	818.3		ROUND	3	811.78	N	15	RCP	CLASS III	811.28	S	15	RCP	CLASS III	813.71	NW	12	RCP	CLASS III						MAPLE STREET	AS BUILT	VER	A&F ENGINEERING
6	203	MANHOLE	818.35		ROUND	1	813.90	SE	12	RCP	CLASS III	813.90	W	12	RCP	CLASS III											MAPLE STREET	AS BUILT	VER	A&F ENGINEERING
7	204	MANHOLE	819.71		RECTANGULAR	4	813.30	N	15	RCP	CLASS III	813.71	S	12	RCP	CLASS III	813.05	S	15	RCP	CLASS III	813.71	NW	12	RCP	CLASS III	MAPLE STREET	AS BUILT	VER	A&F ENGINEERING
8	206	YARD INLET	819.77		SQUARE	1	813.90	SE	12	RCP	CLASS III																MAPLE STREET	AS BUILT	VER	A&F ENGINEERING
9	207	BBBHIVE INLET	820.95		SQUARE	3	815.00	N	12	RCP	CLASS III	814.30	NE	12	RCP	CLASS III	814.41	S	15	RCP	CLASS III						MAPLE STREET	AS BUILT	VER	A&F ENGINEERING
10	208	MANHOLE	822.01		ROUND	1	815.78	S	12	RCP	CLASS III																MAPLE STREET	AS BUILT	VER	MAYER NAJEM
11	209	YARD INLET	822.89		SQUARE	1	817.91	SW	12	RCP	CLASS III																MAPLE STREET	AS BUILT	VER	A&F ENGINEERING
12																												AS BUILT	VER	

Row	UPS_STR_ID	DOW_STR_ID	SLOPE	DIMENSIONS	STR_SHAPE	PIPE_LEN	MATER	PIPE_CLASS	LEN_GRA_FI	AVG_DEPTH	UPST_INVER	DOWN_INVER	SLOPE_CHEC	PROJECT	SOURCE	VER_REF	ENG_CMPY	AB_ID	DEVELOPER
1	35	34	0.37%	24	ROUND	40	RCP	CLASS II	40	6.5	809.69	809.53	0.004	Maple Street	AS BUILT	VER	A&F ENGINEERING		
2	36	35	0.32%	18	ROUND	20	RCP	CLASS II	20	6.5	810.27	810.19	0.004	Maple Street	AS BUILT	VER	A&F ENGINEERING		
3	201	36	0.78%	18	ROUND	85	RCP	CLASS II	85	6.5	810.97	810.27	0.0082	Maple Street	AS BUILT	VER	A&F ENGINEERING		
4	202	201	0.97%	15	ROUND	2	RCP	CLASS II	2	6	811.28	811.22	0.03	Maple Street	AS BUILT	VER	A&F ENGINEERING		
5	203	202	0.83%	12	ROUND	18	RCP	CLASS II	18	4	813.90	813.71	0.0106	Maple Street	AS BUILT	VER	A&F ENGINEERING		
6	204	202	0.88%	15	ROUND	139	RCP	CLASS II	139	5.5	813.05	811.78	0.0091	Maple Street	AS BUILT	VER	A&F ENGINEERING		
7	205	204	0.01%	12	ROUND	3	RCP	CLASS II	3	4	813.74	813.71	0.01	Maple Street	AS BUILT	VER	A&F ENGINEERING		
8	206	204	0.66%	12	ROUND	26	RCP	CLASS II	26	4	813.90	813.71	0.0073	Maple Street	AS BUILT	VER	A&F ENGINEERING		
9	207	204	0.87%	15	ROUND	123	RCP	CLASS II	123	5.5	814.41	813.30	0.009	Maple Street	AS BUILT	VER	A&F ENGINEERING		
10	208	207	0.88%	12	ROUND	85	RCP	CLASS II	85	3.5	815.78	815.00	0.0092	Maple Street	AS BUILT	VER	MAYER NAJEM		
11	209	207	0.99%	12	ROUND	89	RCP	CLASS II	89	5.5	817.91	817.00	0.0102	Maple Street	AS BUILT	VER	A&F ENGINEERING		

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